GIS News

January 2016

Property Viewer

To enhance the end-user's overall experience with interactive maps in the county, the GIS team has invested time in creating a number of task-specific maps and applications that serve general purposes. In the case of the new Property Viewer, users now have a responsive mapping application that adjusts functionality based on the type of device one is using. That means this application is optimized for use on smartphones, tablets and desktops. This application also maintains nearly all of the functionality of the existing county interactive map. In addition, there are many new features that can benefit users on a daily basis.

*Use the **Incident Analysis** widget to analyze information from different feature layers within a specified distance of a location.*

This application was created in a way that allows for iterative enhancements on a continual basis. That means you can expect new capabilities on a near-quarterly basis. Some exciting anticipated features that we plan to roll out in the new year are:

GOOGLE STREETVIEW

A number of users were using the existing interactive map on one monitor, and Google Streetview in another. The two have been integrated in order to improve the user-experience. *Does not work on mobile devices.*
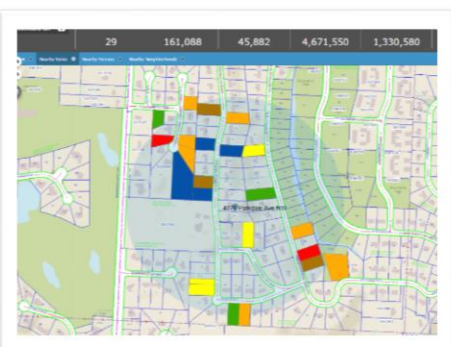
PICTOMETRY IMAGERY

Similar to Google Streetview, Pictometry (oblique, or side-view imagery) has just been integrated with the Property Viewer in order to allow for a more intuitive and robust user-experience.

PUBLIC NOTIFICATION

Currently, selecting a parcel or multiple parcels, creating a custom buffer, and automatically creating a CSV or mailing labels can be done in our **Public Notification Application**. This functionality will be included in the Property Viewer in the near future.

If you need help with any of the new tools/widgets, check out our **How Do I Page**.

IN THIS ISSUE

Road Sign Inventory

Implemented in 2014, Stark County GIS has provided a Sign Inventory solution that has been adopted by several entities, including the Stark County Engineer.

2015 OGRIP "Best Practices" Award

Stark County GIS was a 2015 co-winner of OGRIP's "Best Practices" award. This marked the 4th time Stark County GIS has won this statewide award.

Collector for ArcGIS

Have a project but don't have the manpower? Take a look at how Collector for ArcGIS can be leveraged to quickly and easily collect assets in the field.

Spatial Spotlight: Jared Shive

We would like to recognize Jared Shive of Stark Parks. Jared worked closely with Stark County GIS to develop and implement the county-wide Stark Parks Field Collection application.

Click images for more information

Road Sign Inventory

A snapshot of data collected with the Sign Inventory Application.

As Stark County GIS began reaching out to the many different municipalities and agencies within the county, it became apparent that several entities were managing similar projects, usually in varying capacities. Collecting, storing, and updating information on all of the road signs throughout the county is one such project.

Before the Sign Inventory application was up and running in 2014, there wasn't a seamless, digital workflow for a city, village, or township to inventory their road signs and later send along their collection of assets to the County Engineer.

Some of the information needing to be collected on each sign includes location, sign type (i.e., warning, regulatory, or guide sign), sign style (i.e., stop sign, speed limit, railroad crossing, etc.), reflective coating, sheeting type, condition, and photo(s).

Partnering with Canton Township's Road Department, Stark County GIS deployed its first Sign Inventory solution in 2014. Since then, the solution has been adopted by a number of other agencies, with the most recent being the Stark County Engineer, resulting in hundreds of signs being collected to date.

Field crews have the ability to collect road sign data via smartphone or GPS enabled tablet through either a web-based application or Esri's freely downloadable app, *Collector for ArcGIS*. Data is entered and updated in real-time. As can be seen in the image above, actual sign symbology is displayed on the map so users and field editors can quickly see exactly which sign has been recorded for a given location.

The Sign Inventory solution has simplified and digitized road sign collection, making sharing and searching attribute information quick and easy.

Collector for ArcGIS

2015 OGRIP "Best Practices" Award

From left to right: Dean Ringle (CEAO), Brian Hall, John Reese, Danielle Papineau, and Joe Guzi.

The Ohio Geographically Referenced Information Program (OGRIP) is "the GIS coordinating body for state and local government" within Ohio. OGRIP encourages digital geographic data creation and has created an Open Data Portal that houses access to state and local government datasets, enterprise datasets, the Ohio Statewide Imagery Program (OSIP) aerial imagery, LiDAR, digital elevation models, and Location Based Response System datasets.

OGRIP holds an annual Ohio GIS Conference and presents the winners of the "Best Practices" award. Stark County GIS was a 2015 recipient of the award and was recognized for its enterprise-wide approach to GIS. The award was previously accepted in 2004, 2009, and 2010.

This award serves to recognize Ohio organizations whose Geographic Information Systems support OGRIP's goals of providing data to multiple users, facilitating data sharing among multiple groups, and demonstrating the use of GIS as a decision-making tool.

An essential objective for Stark County GIS is to increase interaction between entities through the use of shared data. The ability to seamlessly share this data via maps and other applications has lessened the number of data silos within the county. These data silos are often unable to share common types of information, which creates inconsistencies throughout the county.

If you would like to see the options that exist for your department, please contact us. Although every department is unique, many workflows can be improved with similar solutions.

OGRIP Ohio Geographically Referenced Information Program

Click images for more information

Go Mobile with *Collector for ArcGIS*

Collector for ArcGIS has made mobile data collection easy, accurate, and fast. Organizations and field crews alike, can appreciate the simple and intuitive user interface of *Collector*. Additionally, when paired with Stark County GIS, managers can rest assured that the collected data is fed directly to our county server infrastructure. Integration takes place behind the scenes and is seamless.

Additionally, Esri has created an "ArcGIS for Local Government" solution. Essentially, they have created over 100 GIS-based templates for solutions to local and state government projects and workflows, including Health and Safety Reports, Road Closures, Flood Planning, Value Analysis, SnowCOP, MS4 Inventory, Water Utility, Sanitary Sewer Network,

Stormwater Network, Construction Site Violations, and many more.

With Collector, your organization will have the ability to:

- ⮑ Collect and update information in the field
- ⮑ Take maps and data offline and sync changes when connected
- ⮑ Improve data quality with easy-to-use map-driven forms
- ⮑ Track your work and report your activities

Boost data integrity and efficiency of your field crews by giving them the ability to map from the field. Call Stark County GIS and see how we can get you mobile.

Use Collector for ArcGIS *on your smartphone. Visit* Google Play, Apple's App Store *or the* Windows Store *to download the free app.*

Spatial Spotlight
Jared Shive

A common need throughout local government is the ability to maintain an inventory of assets. Through collaboration with the county's GIS Department, Jared was able to utilize existing county infrastructure to deploy a quick-to-market solution for field collection of Stark Parks' amenities. Additionally, he trained volunteers to aid in the collection effort.

"Every area that Stark Parks manages has many visitor amenities like bike racks, drinking fountains, and dozens of directional and regulation signs. The expanding network of trails and parks quickly surpassed any efficient software or database we were proficient with, so we presented our problem to the Stark County GIS Department. Our plan was to utilize Stark Parks volunteers already out using and helping visitors use these areas. After one short training session on the Collector app, volunteers divided into teams and were assigned areas based on their location or willingness to travel. The volunteers quickly caught the GIS bug and completed 75% of the locations since September 2015.

"Using the Collector app has given us an efficient way to inventory park benches and many other amenities by location, type, and the date they were installed or last inspected. The real-time collection is a productive tool to monitor volunteer efforts and progress and a reference point to help plan for future needs as new areas open to visitors."

-- *Jared Shive*

Click images for more information

QUESTIONS, COMMENTS, OR IDEAS?

Do you have any ideas for your department? Would you like to see your location-based data displayed on an interactive map, or even have a map embedded on your department's website? Feel free to call or email us with questions, comments, or ideas!

Phone 330-451-7193
Email   GIS@starkcountyohio.gov

Learn more about Stark County GIS
View our mapping applications at myStark Maps & Apps
Browse and download data at the Open Data Portal

Please email **GIS@starkcountyohio.gov** to be added to the *GIS News* mailing.

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